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RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/900,963

TIME: 15:29:18

Input Set : N:\CrF3\RULE60\09900963.raw

Output Set: N:\CRF3\01032002\I900963.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: GUERIN-MARCHAND, Claudine
6 DRUILHE, Pierre

8 (ii) TITLE OF INVENTION: PEPTIDE SEQUENCES SPECIFIC FOR THE
9 HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
10 OF STIMULATING THE T LYMPHOCYTES

12 (iii) NUMBER OF SEQUENCES: 46

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Burns, Doane, Swecker & Mathis

16 (B) STREET: P.O. Box 1404

17 (C) CITY: Alexandria

18 (D) STATE: Virginia

19 (E) COUNTRY: United States

20 (F) ZIP: 22313-1404

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk

24 (B) COMPUTER: IBM PC compatible

25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/09/900,963

C--> 30 (B) FILING DATE: 10-Jul-2001

31 (C) CLASSIFICATION:

33 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: 08/098,327

35 (B) FILING DATE:

37 (viii) ATTORNEY/AGENT INFORMATION:

38 (A) NAME: McGowan, Malcolm K.

39 (B) REGISTRATION NUMBER: 39,300

40 (C) REFERENCE/DOCKET NUMBER: 010830-045

42 (ix) TELECOMMUNICATION INFORMATION:

43 (A) TELEPHONE: (703) 836-6620

44 (B) TELEFAX: (703) 836-2021

47 (2) INFORMATION FOR SEQ ID NO: 1:

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 17 amino acids

51 (B) TYPE: amino acid

52 (C) STRANDEDNESS: single

53 (D) TOPOLOGY: linear

55 (ii) MOLECULE TYPE: peptide

57 (ix) FEATURE:

58 (A) NAME/KEY: Peptide

59 (B) LOCATION: 8

60 (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is
61 Glu or Gly."

63 (x) PUBLICATION INFORMATION:

ENTERED

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Input Set : N:\Crf3\RULE60\09900963.raw

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64         (H) DOCUMENT NUMBER: WO 92/13884
65         (J) PUBLICATION DATE: 20-AUG-1992
67         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 69      Leu Ala Lys Glu Lys Leu Gln Xaa Gln Gln Ser Asp Leu Glu Gln Glu
70          1             5             10             15
72      Arg
74 (2) INFORMATION FOR SEQ ID NO: 2:
76     (i) SEQUENCE CHARACTERISTICS:
77         (A) LENGTH: 17 amino acids
78         (B) TYPE: amino acid
79         (C) STRANDEDNESS: single
80         (D) TOPOLOGY: linear
82     (ii) MOLECULE TYPE: peptide
84     (ix) FEATURE:
85         (A) NAME/KEY: Peptide
86         (B) LOCATION: 1
87         (D) OTHER INFORMATION: /note= "Amino Acid 1 wherein Xaa is
88 Ser or Arg."
90     (ix) FEATURE:
91         (A) NAME/KEY: Peptide
92         (B) LOCATION: 6
93         (D) OTHER INFORMATION: /note= "Amino Acid 6 wherein Xaa is
94 Glu or Asp."
96     (ix) FEATURE:
97         (A) NAME/KEY: Peptide
98         (B) LOCATION: 8
99         (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is
100 Arg or Leu."
102     (ix) FEATURE:
103         (A) NAME/KEY: Peptide
104         (B) LOCATION: 15
105         (D) OTHER INFORMATION: /note= "Amino Acid 15 wherein Xaa
106 is Glu or Gly."
108     (x) PUBLICATION INFORMATION:
109         (H) DOCUMENT NUMBER: WO 92/13884
110         (J) PUBLICATION DATE: 20-AUG-1992
112     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 114      Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa Gln
115          1             5             10             15
117      Gln
119 (2) INFORMATION FOR SEQ ID NO: 3:
121     (i) SEQUENCE CHARACTERISTICS:
122         (A) LENGTH: 17 amino acids
123         (B) TYPE: amino acid
124         (C) STRANDEDNESS: single
125         (D) TOPOLOGY: linear
127     (ii) MOLECULE TYPE: peptide
129     (ix) FEATURE:
130         (A) NAME/KEY: Peptide

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131 (B) LOCATION: 2
 132 (D) OTHER INFORMATION: /note= "Amino Acid 2 wherein Xaa is
 133 Ser or Arg."
 135 (ix) FEATURE:
 136 (A) NAME/KEY: Peptide
 137 (B) LOCATION: 7
 138 (D) OTHER INFORMATION: /note= "Amino Acid 7 wherein Xaa is
 139 Glu or Asp."
 141 (ix) FEATURE:
 142 (A) NAME/KEY: Peptide
 143 (B) LOCATION: 9
 144 (D) OTHER INFORMATION: /note= "Amino Acid 9 wherein Xaa is
 145 Arg or Leu."
 147 (ix) FEATURE:
 148 (A) NAME/KEY: Peptide
 149 (B) LOCATION: 16
 150 (D) OTHER INFORMATION: /note= "Amino Acid 16 wherein Xaa
 151 is Glu or Gly."
 153 (x) PUBLICATION INFORMATION:
 154 (H) DOCUMENT NUMBER: WO 92/13884
 155 (J) PUBLICATION DATE: 20-AUG-1992
 157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 W--> 159 Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa
 160 1 5 10 15
 162 Gln
 164 (2) INFORMATION FOR SEQ ID NO: 4:
 166 (i) SEQUENCE CHARACTERISTICS:
 167 (A) LENGTH: 17 amino acids
 168 (B) TYPE: amino acid
 169 (C) STRANDEDNESS: single
 170 (D) TOPOLOGY: linear
 172 (ii) MOLECULE TYPE: peptide
 174 (ix) FEATURE:
 175 (A) NAME/KEY: Peptide
 176 (B) LOCATION: 3
 177 (D) OTHER INFORMATION: /note= "Amino Acid 3 wherein Xaa is
 178 Ser or Arg."
 180 (ix) FEATURE:
 181 (A) NAME/KEY: Peptide
 182 (B) LOCATION: 8
 183 (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is
 184 Glu or Asp."
 186 (ix) FEATURE:
 187 (A) NAME/KEY: Peptide
 188 (B) LOCATION: 10
 189 (D) OTHER INFORMATION: /note= "Amino Acid 10 wherein Xaa
 190 is Arg or Leu."
 192 (ix) FEATURE:
 193 (A) NAME/KEY: Peptide

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194         (B) LOCATION: 17
195         (D) OTHER INFORMATION: /note= "Amino Acid 17 wherein Xaa
196 is Glu or Gly."
198         (x) PUBLICATION INFORMATION:
199             (H) DOCUMENT NUMBER: WO 92/13884
200             (J) PUBLICATION DATE: 20-AUG-1992
202         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 204     Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln
205         1             5             10             15
W--> 207     Xaa
209 (2) INFORMATION FOR SEQ ID NO: 5:
211     (i) SEQUENCE CHARACTERISTICS:
212         (A) LENGTH: 17 amino acids
213         (B) TYPE: amino acid
214         (C) STRANDEDNESS: single
215         (D) TOPOLOGY: linear
217     (ii) MOLECULE TYPE: peptide
219     (ix) FEATURE:
220         (A) NAME/KEY: Peptide
221         (B) LOCATION: 1
222         (D) OTHER INFORMATION: /note= "Amino Acid 1 wherein Xaa is
223 Glu or Gly."
225     (ix) FEATURE:
226         (A) NAME/KEY: Peptide
227         (B) LOCATION: 4
228         (D) OTHER INFORMATION: /note= "Amino Acid 4 wherein Xaa is
229 Ser or Arg."
231     (ix) FEATURE:
232         (A) NAME/KEY: Peptide
233         (B) LOCATION: 9
234         (D) OTHER INFORMATION: /note= "Amino Acid 9 wherein Xaa is
235 Glu or Asp."
237     (ix) FEATURE:
238         (A) NAME/KEY: Peptide
239         (B) LOCATION: 11
240         (D) OTHER INFORMATION: /note= "Amino Acid 11 wherein Xaa
241 is Arg or Leu."
243     (x) PUBLICATION INFORMATION:
244         (H) DOCUMENT NUMBER: WO 92/13884
245         (J) PUBLICATION DATE: 20-AUG-1992
247     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 249     Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu
250         1             5             10             15
252     Gln
254 (2) INFORMATION FOR SEQ ID NO: 6:
256     (i) SEQUENCE CHARACTERISTICS:
257         (A) LENGTH: 17 amino acids
258         (B) TYPE: amino acid
259         (C) STRANDEDNESS: single

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Output Set: N:\CRF3\01032002\I900963.raw

260 (D) TOPOLOGY: linear
 262 (ii) MOLECULE TYPE: peptide
 264 (ix) FEATURE:
 265 (A) NAME/KEY: Peptide
 266 (B) LOCATION: 2
 267 (D) OTHER INFORMATION: /note= "Amino Acid 2 wherein Xaa is
 268 Glu or Gly."
 270 (ix) FEATURE:
 271 (A) NAME/KEY: Peptide
 272 (B) LOCATION: 5
 274 (D) OTHER INFORMATION: /note= "Amino Acid 5 wherein Xaa is
 275 Ser or Arg."
 277 (ix) FEATURE:
 278 (A) NAME/KEY: Peptide
 279 (B) LOCATION: 10
 280 (D) OTHER INFORMATION: /note= "Amino Acid 10 wherein Xaa
 281 is Glu or Asp."
 283 (ix) FEATURE:
 284 (A) NAME/KEY: Peptide
 285 (B) LOCATION: 12
 286 (D) OTHER INFORMATION: /note= "Amino Acid 12 wherein Xaa
 287 is Arg or Leu."
 289 (x) PUBLICATION INFORMATION:
 290 (H) DOCUMENT NUMBER: WO 92/13884
 291 (J) PUBLICATION DATE: 20-AUG-1992
 293 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 W--> 295 Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys
 296 1 5 10 15
 298 Leu
 300 (2) INFORMATION FOR SEQ ID NO: 7:
 302 (i) SEQUENCE CHARACTERISTICS:
 303 (A) LENGTH: 17 amino acids
 304 (B) TYPE: amino acid
 305 (C) STRANDEDNESS: single
 306 (D) TOPOLOGY: linear
 308 (ii) MOLECULE TYPE: peptide
 310 (ix) FEATURE:
 311 (A) NAME/KEY: Peptide
 312 (B) LOCATION: 3
 313 (D) OTHER INFORMATION: /note= "Amino Acid 3 wherein Xaa is
 314 Glu or Gly."
 316 (ix) FEATURE:
 317 (A) NAME/KEY: Peptide
 318 (B) LOCATION: 6
 319 (D) OTHER INFORMATION: /note= "Amino Acid 6 wherein Xaa is
 320 Ser or Arg."
 322 (ix) FEATURE:
 323 (A) NAME/KEY: Peptide
 324 (B) LOCATION: 11

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,963

DATE: 01/03/2002

TIME: 15:29:19

Input Set : N:\Crf3\RULE60\09900963.raw

Output Set: N:\CRF3\01032002\I900963.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18